



COPY OF PAPERS  
ORIGINALLY FILED

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

#18/Am#  
Bentley  
6/11/02

APPLICANT: B. Martinez-Tovar et al : GROUP ART UNIT: 3641  
SERIAL NO: 09/470,343 :  
FILING DATE: December 22, 1999 : EXAMINER: T. Chambers  
TITLE: TITANIUM SEMICONDUCTOR BRIDGE :  
IGNITER : ATTY. DKT.: P-1583

**RESPONSE TO OFFICE ACTION**

Commissioner For Patents  
Washington, D.C. 20231

June 10, 2002

Dear Sir:

This paper is responsive to the office action mailed April 11, 2002 in the captioned application.

Enclosed herewith, on a separate paper, is a petition for an extension of time for reply to the office action to June 11, 2002.

**AMENDMENTS**

Please amend claims 12, 18 and 21 to read as follows.

**RECEIVED**

JUN 27 2002

**GROUP 3600**

12. (thrice amended) A semiconductor bridge igniter comprising:

a substrate;

an electrical bridge structure disposed on the substrate, the bridge structure comprising a layer of a semiconductor material having a negative coefficient of electrical conductivity at temperatures above ambient temperature and having disposed thereover a layer of titanium, the bridge structure comprising a bridge section extending between and connecting spaced-apart pad sections, each pad section being of larger area than the bridge section; and  
a pair of electrically conductive lands each overlying a respective one of the pad sections and being spaced apart from each other to leave the bridge section exposed, made by the method comprising depositing a layer of semiconductor material and an exposed layer of

Sub 21